

**Department of Public Works and Transportation
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



Pilot area using toters to increase mixed paper collection.

***MONTHLY REPORT
DECEMBER 2001***



Printed on Recycled and Recyclable Paper

TABLE OF CONTENTS

<u>OVERVIEW</u>	3
<u>CITIZEN COMMITTEES</u>	4
<u>COLLECTIONS</u>	4
<u>WASTE MINIMIZATION</u>	5
<u>HAZARDOUS WASTE PROGRAMS</u>	6
<u>AIR PERMITS AND ENVIRONMENTAL PROGRAMS</u>	6
<u>RECYCLING</u>	7
<u>PILOT PROGRAMS</u>	8
<u>FACILITY ACTIVITIES</u>	9
<u>GENERAL INFORMATION</u>	11
<u>SOLID WASTE FACTS IN A NUTSHELL</u>	12
<u>GLOSSARY OF ACRONYMS</u>	13

OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2002 began July 1, 2001.)

FACILITY	Dec FY 02	FY 02 Total	Dec FY 01	Dec FY 00
Materials Recovery Facility ⁽¹⁾	6,629 tons	40,313 tons	6,799 tons	5,975 tons
Brunswick Landfill Facility ⁽⁴⁾	16,131 tons	116,204 tons	10,723 tons	10,990 tons
American Ash Recycling ⁽²⁾	N/A	N/A	2,454 tons	2,994 tons
Resource Recovery Facility ⁽³⁾	31,645 tons	290,227 tons	40,316 tons	40,707 tons
Yard Trim Compost Facility	14,696 tons	43,779 tons	8,218 tons	13,149 tons

⁽¹⁾MRF tons reported are outgoing.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY02 these tonnages are preliminary, with adjustments made in the December and June monthly reports.

⁽⁴⁾This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled at Clean Rock or other locations.

Revenue Analysis and Systems Evaluation – During December program staff:

- Prepared and issued hard copy and web-based invoices to all refuse collector credit accounts using a new billing system.
- Continued coordinated of master budget spreadsheet for the FY03-08 period, prepared various required budget presentations.
- Conformed Rate and Fiscal Health spreadsheet models for the FY03-08 period to the Department's FY03 budget as submittal to OMB.
- Continued processing all non-residential appeals, advanced 95 to completion.
- Handled routine level of property account billing inquiries.
- Updated and reported service household counts for the month.
- Researched accounts in the database for corrections in the premise addresses, land use codes, gross floor area and other fields.
- Sent data advisories to State Department of Assessment and Taxation (SDAT), and reviewed database change confirmations made by SDAT.

- Determined billing categories for 541 newly occupied properties and updated the new street maps in the central office.
- Continued work on Variable Rate Study; furthered research of rate options and report text.

CITIZEN COMMITTEES

Facilities Implementation Group – The next scheduled FIG meeting is January 15, 2002 at the Gothic Barn.

Solid Waste Advisory Committee – SWAC met Tuesday, December 4, at the EOB, 6th Floor Conference Room; 11 SWAC members, 6 County staff and 3 guests were in attendance. DSWS staff gave presentations to the Committee on Waste Reduction, the Residential Household Hazardous Waste Collection Program, and the Waste Detoxification (Ecowise) Collection Program for businesses.

COLLECTIONS

Refuse – Refuse collections went as scheduled for the month of December. There was one holiday, Christmas, which created a holiday slide from Wednesday through Saturday. The slide did not seem to cause any noticeable confusion to the public.

Recycling – Mixed paper tonnages for the residential program during the past 20 weeks are as follows:

8/6/01 through 8/31/01	9.10 lbs. per household
9/3/01 through 9/28/01	10.08 lbs. per household
10/1/01 through 10/26/01	11.10 lbs. per household
10/29/01 through 11/23/01	10.83 lbs. per household
11/26/01 through 12/21/01	11.52 lbs. per household

Contractor Performance – In December DSWS received 346 complaints; this represented a 23.45% decrease from December 2000, which had 452 complaints. Only two complaints were not promptly resolved by the contractors; both were corrected by the County with appropriate charges (fines) assessed to the companies.

Enforcement Actions – Six citations were issued for violations of the County's Solid Waste Laws:

Three citations	Collecting before 7 a.m. less than 500 ft. from a residential structure	\$2,000
Three citations	Not having a valid collectors tag attached	\$1,750

Ten NOV's issued for violations of the County's Solid Waste Laws:

Seven NOV's	Failure to store solid waste in a vermin-proof and water proof container with tight-fitting lids
One NOV	Improperly stored or permitted solid waste to accumulate
One NOV	Dump, deposit or leave solid waste at other than acceptance facility
One NOV	Failure to keep property free of solid waste

Customer Service – DSWS received 6,804 incoming calls and 191 follow-up calls were made for quality check. There were 820 blue bins delivered and 190 e-mail requests handled by the Customer Service Staff.

WASTE MINIMIZATION

Latex Paint Management – Newspaper ads were run to promote home management of latex paint.

Computer Recycling – Approximately 26 tons of computers were recycled in December under the computer recycling program. Plans were made to participate at an upcoming computer show at the County fairgrounds to promote computer recycling. In addition, a truck will be stationed at the event to accept computers for recycling.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Participated in the Audubon Naturalist Society Annual Holiday Fair by providing a workshop and demonstration of home and worm composting on Saturday, December 1.

Every fourth Friday of the month, the "Green Man" column appears in the Gazette Newspapers; the column also appears in digest form at greenman.askDEP.com and at www.gazette.net. In addition, Eco Minutes from the Green Man continue to air weekdays on WARW 94.7 FM. Tips are also found on www.classicrock947.com.

Conducted VermiLab training at Watkins Mill High School for 30 teachers. After one semester of evaluation, a new, more efficient and trouble-free worm composting bin (Can O' Worms) has been selected for use in any new school interested in setting up indoor worm composting systems.

Planning continues for an in-vessel composting system for the Department of Corrections to handle approximately 1,500 pounds of food waste daily. Representatives from DSWS, DEP, and Corrections will begin touring operating facilities beginning in early 2002.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – One event was held at the Transfer Station on December 2nd; 508 patrons attended.

Small Quantity Generator (Ecowise) Program- One SQG/Ecowise event was held in December with 7 patrons attending.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEM Tracking of RRF Operations – The Continuous Emissions Monitoring System (CEMS) independently tracked the shutdown and start-up of the units. On November 28 at 10 a.m., CEMS indicated a spike in the Carbon Monoxide (CO) emissions when Unit 2 was brought offline. Since then, Units 1 and 3 have been operating till the end of December. No equipment malfunctions in December.

On December 10 and 11, the U.S. Environmental Protection Agency (EPA) Region III conducted an inspection of the RRF to determine compliance of the facility with the Clean Air Act (CAA). Two staff members from the Air Enforcement Section of the EPA represented the Agency; DSWS and Covanta staff provided all the information the Agency needed and answered questions. The EPA staff was pleased with the meeting and expressed appreciation to the County and Covanta for their cooperation. The Agency will submit a Draft Inspection Report to the County in a few months.

The CEMS-web site is functioning satisfactorily. However, the problem of getting the data at midnight remains unsolved; Covanta is still working on the problem.

In the first week of December, the set of eight CEMS CD-ROM's was updated to include CEMS data up to November 30, 2001. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to DSWS staff, SWAC and FIG.

The draft report on the annual stack-test results for the RRF is expected in January. In the second week of December, the County received the RRF Title V Air Permit from MDE. Starting December 1, EPA Region III officially took over the oversight of the RRF Title V Air Permit compliance program. However, the Agency delegated the authority to MDE. Therefore, MDE will continue to be the primary contact for all permit compliance purposes.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology – In late December, damage to the walls of the evaporator was noticed. Bentech needs to make repairs to the refractory of the evaporator. Bentech continues to pursue efforts to implement the electric component of the project.

FIG-SWAC Air Quality Subcommittee – Laboratory analysis of samples collected in the Non-Air Media Sampling Program was completed in December. A draft report from ENSR is expected in February 2002.

Contractual Work – The County's Health Officer reviewed the Epidemiology Report and agreed with the conclusions of the report. ENSR is still working on the update of the RRF Health Risk Study. The draft report is expected in February.

RECYCLING

Public Outreach – The Recycling Task Force kick-off meeting was held on December 12th with the County Executive. The canvassing effort to go door-to-door to educate residents about the mixed paper recycling program continued. Additional canvassers are being recruited.

Commercial Recycling and Waste Reduction – The Business Recycling Handbook is being revised and updated. Staff continued to perform on-site evaluations of recycling programs for businesses and respond to complaints. One NOV was issued in December for no recycling program. Annual reports were mailed to all large businesses (250 or more employees) on December 1st, and to all medium sized businesses (100-249 employees) on December 27th. Staff conducted several presentations for schools and for the Department of Recreation's training for recycling coordinators.

Multi-Family Recycling – Staff continued to perform on-site evaluations of recycling programs and work with property managers and residents to provide assistance and support. The annual reports were mailed to all multi-family properties and are due by February 1, 2002. Staff continued to monitor the progress of adding mixed paper collection containers in the mailrooms of high-rise apartment buildings.

Mixed Paper Recycling – Canvassing continues in Area 7. Canvassers are equipped with mixed paper recycling information and paper shopping bags containing samples of the different types of mixed paper items that can be recycled. They provide a quick demonstration using this kit. They also ask residents to sign a recycling pledge, stating that they will recycle as much as possible. The recent winter weather has impacted the number of hours that canvassers were able to canvass. Recruiting of canvassers continues, as some of the canvassers have resigned. A number of college students were recruited to canvass over their winter semester break, however, they will leave to return to school shortly. Staff continued monitoring the amounts of mixed paper being recycled in each area to troubleshoot and provide additional education to those low performance areas.

Volunteer Activities - For the month of December, volunteers participated in the following activities:

- One HHW collection at the Shady Grove Transfer Station.
- The Silver Spring Holiday Parade.

- The Volunteer Program Manager assisted in the Canvassing Initiative.
- The Volunteer Program Manager gave several recycling presentations to approximately 564 students at three schools.

PILOT PROGRAMS

Mixed Paper Pilot – We continue to monitor the Potomac toter program. The last three weeks of December produced the following results:

12/12/01	17,160 lbs. = 21.19 lbs. per house
12/19/01	18,100 lbs. = 22.35 lbs. per house
12/27/01	20,660 lbs. = 25.51 lbs. per house

The current average weight per house for the 14 weeks of the toter program is 22.12 lbs. as opposed to 13.99 lbs. per house before the toter program. This represents a 58.11% increase in the mixed paper capture rate.

Tubgrinding Pilot – Tubgrinding of screened reject material at the Compost Facility is ongoing.

Ash Recycling Pilot – The ash recycling pilot program ended in June 2001. The Authority received proposals for a long-term ash recycling program on September 17, 2001; the proposals are being reviewed. The County and Authority personnel visited a referenced ash recycling facility in New Jersey. Evaluations of the proposals continue.

FACILITY ACTIVITIES

Resource Recovery Facility – For the entire month the RRF ran with two units on-line and one unit in a planned outage. Unit 1 was off-line for one hour for air preheater cleaning.

The planned unit outage was performed without many problems. New refractory was installed in the furnace area and Inconel was applied to tubes as planned. The unit was ready for operation on January 2, 2002, and was placed in a standby mode.

The ad hoc committee for developing protocol for radiation alarms held a conference call on December 17th and discussed several issues. A general approach was agreed to and tasks were defined for follow-up work. Protocol and guidance documents from Pennsylvania have been obtained and are being reviewed. The committee will draft our own protocol which will then be reviewed by SWAC, FIG and the operating parties.

There were no operating curtailments from Mirant and no turbine/generator trips during the month.

There were no air or water quality excursions during the month.

The following environmental activities occurred:

- The Title V Air Permit was received. It has an expiration date of 10-31-06.
- EPA Region III conducted a 2-day environmental audit of the facility.
- November Potable water report was submitted to MDE.
- The 4th Quarter potable water sampling results were submitted to MDE.
- Additional data for the 5-year operations review was submitted.
- Updated carbon flow/steam flow/baghouse inlet temperature limits in response to Title V requirements.
- Updated County CD-ROM's with air emission data.

Approximately 15 Brownies and several parents toured the Facility.

Materials Recovery Facility – Approximately 1,551 tons of commingled material were shipped out after processing, and approximately 5,078 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

The contract for replacement of the processing equipment was signed in late December.

New speed bumps were installed in front of the inbound and outbound scales at the scale house. A new speed bump was installed at the expansion area bay. Additional signage was installed to caution drivers to close their tailgates after tipping their recycling material.

Oaks Landfill – The County approved the Phase I contractor's request for final release of retainage; this closes out this project. SCS Engineers continue to prepare closure certification documents to be submitted to MDE.

SCS Engineers made additional progress on design plans for subdividing the leachate storage lagoons to facilitate long-term maintenance.

The County awarded a task order to assess the feasibility of constructing a gas-to-energy facility, should the County opt to do this directly at the Oaks Landfill and provided background information on the landfill history to the contractor.

Gude Landfill – The County met with URS and provided them with comments on design documents for the repair of several poorly draining areas at the landfill.

Beantown Dump – DSW's contractor is finalizing specifications for installation of a gas venting system at the old Beantown dump site. The County continues to work on executing agreements for the installation of gas extraction wells with property owners. Bids for the installation of methane gas detectors in businesses on and near the former footprint of the dump are due on Friday, January 11th.

Transfer Station- During December, Covanta shipped via rail 45,131 tons of processible waste from the Transfer Station to the RRF, 6,665 more tons than shipped in December 2000.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

The Transfer Station finished up its participation in the County's leaf vacuum program for this season.

DSWS started the installation of new radiation detection equipment at the scales.

Site 2 Landfill Properties – Work continues on the Chiswell Farm renovation. DFS extended the deadline for submitting long-term lease proposals to December 31, 2001.

Solid Waste Facilities Master Plan – Staff is working with FIG to update the Plan. Staff has sent out a task order for pricing.

Berm construction between the Compost Facility and the Gothic Barn started.

The Winter Traffic Count to determine the impact of the County Facilities on the Dickerson community was conducted from January 7-11, 2002.

Yard Trim Compost Facility – In the month of December, 14,696 tons of leaves were received at the Dickerson Yard Trim Facility for composting. Storm water management pond cleaning and relining (pond #3) is complete.

Bagging Operation – No bagged Leafgro® was produced at the facility in December; 4,119 bags of Leafgro® were shipped to distributors.

Linden Farm Renovations – Under the signed bagging agreement, the County is to renovate the Feed Barn and Bank Barn. Dean Fitzgerald, the contractor, started the renovation work in June. The first phase of work is complete. Remaining work is to install a new roof on the silos.

Out-of-County Haul

Brunswick County, Virginia – During the month of December, approximately 13,077 tons of ash residue and 3,055 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, Virginia. About 233 tons of material was recycled at Clean Earth including 33 tons of wood. Maintenance on the ash container fleet, including replacement of corroded side panels continues at the Collier Rail Yard near Petersburg, Virginia. Prototype, corrosion-resistant containers and coatings continue to be evaluated.

Ash Recycling – The County and NEA completed interviews and are evaluating the ash recycling proposals.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1447 (MES)
Resource Recovery Facility	240-777-6439 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.MCRecycles.org

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

Theresa Souders
Department of Public Works and Transportation
Division of Solid Waste Services
101 Monroe Street, 6th Floor
Rockville, MD 20850
Tel: 240-777-6425
Fax: 240-777-6465
E-mail: soudet@co.mo.md.us

SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Current Recycling Rate in Montgomery County	36.5%
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY01 tons received- 59,643
# Residences receiving trash collection by County contractors	84,540
# Residences receiving collection of recyclables in blue bins and yard waste collection	199,258
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DNR	Maryland Department of Natural Resources
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NEA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
T.R.R.A.C.	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility